

Product datasheet for SC307480

AMELX (NM_182680) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMELX (NM_182680) Human Untagged Clone
Tag:	Tag Free
Symbol:	AMELX
Synonyms:	AI1E; AIH1; ALGN; AMG; AMGL; AMGX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC307480 representing NM_182680. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
 ATGGGGACCTGGATTTTATTTGCCTGCCTCCTGGGAGCAGCTTTTGCCATGCCTCTACCACCTCATCCT
 GGGCACCTGGTTATATCAACTTCAGCTATGAGAACTCACATTCTCAGGCTATCAATGTTGACAGGACT
 GCATTAGTGCTTACCCCTTTGAAGTGGTACCAGAGCATAAGGCCACCGTACCTTCCTATGGTTACGAG
 CCCATGGGTGGATGGCTGCACCACCAATCATCCCGTGCTGTCCCAACAGCACCCCGGACTCACACC
 CTGCAGCCTCATCACCACATCCAGTGGTGCCAGCTCAGCAGCCCGTGATCCCCAGCAACCAATGATG
 CCCGTTCTGGCCAACACTCCATGACTCCAATCCAACACCACCAGCCAACTCCCTCCGCCGCCGAG
 CAGCCCTACCAGCCCCAGCCTGTTGAGCCACAGCCTCACCAGCCCATGCAGCCCCAGCCACCTGTGCAC
 CCCATGCAGCCCCGTGCCGCCACGCCACCTCTGCCTCCGATGTTCCCATGCAGCCCCGTGCTCCCATG
 CTTCTGATCTGACTCTGGAAGCTTGCCATCAACAGACAAGACCAAGCGGGAGGAAGTGGATTAA
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTAAACGCCGCCG

Restriction Sites:	Sgfl-MluI
ACCN:	NM_182680
Insert Size:	618 bp


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OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_182680.1
RefSeq Size:	835 bp
RefSeq ORF:	618 bp
Locus ID:	265
UniProt ID:	Q99217
Cytogenetics:	Xp22.2
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
MW:	23.1 kDa
Gene Summary:	<p>This gene encodes a member of the amelogenin family of extracellular matrix proteins. Amelogenins are involved in biomineralization during tooth enamel development. Mutations in this gene cause X-linked amelogenesis imperfecta. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (3) encodes the longest isoform (3).</p>